

The Wobbly Oscillator



Hams Who Serve

Cuyahoga Amateur Radio Society

February 2023

Volume 53

Number 2



Party Time

From The Prez

Holiday Party

We are getting back to normal after the pandemic and having a holiday party this year. Mark, WJ8WM, and his team have set up the gala at a new restaurant that looks to be a dandy place. The party will be Tuesday, February 7th at the Amici Italian Restaurant in North Royalton. It is located at 13000 Royalton Road, at the corner of Route 82 (Royalton Rd.) and West 130th Street. It's easy to access from I-71 or I-77. The party will begin at 6:00 PM with a cocktail social hour followed by dinner. Naturally, the festivities will include awards, door prizes, and raffles. The menu details and cost are included in a flyer at the end of the newsletter and on the website.

Please RSVP by February 1st by emailing your name, guest name, and menu selection to:

blenerhast@aol.com.

It wasn't an easy task for Mark, Kim, KD8FTU; Diane, KD8FTV; and Arp, K8ARP, to come up with a venue for the party. We've all seen the changes in business establishments, especially restaurants, since COVID. Sparse staffing, limited menus, and fewer amenities are factors that ruled out eateries we have used in the past as well as many other places they checked out. So please, offer a word of thanks to the team members when you encounter them at the party.

Licensing Classes

The CARS licensing classes will be starting February 23rd and end with a VE testing session April 6th. We will include Technician, General, and Amateur Extra classes in the curriculum. Once again, we will be holding the classes at the Seven Hills City Hall Community Room.

The classes are open to anyone, it is not required to be a member of CARS. The General class is free of charge to any CARS member.

Anyone who is interested can register online from the CARS website www.2cars.org or by contacting Toby Kolman, WT8O, at wt8o@att.net or 440-525-6109.

WIRES X

The fantastic CARS repeater moved up a notch into elite status in January with the addition of WIRES X. WIRES X is a digital internet communication system utilizing the Fusion C4FM capability of our repeater. The system allows users to communicate worldwide with clear voice communications and high sound quality.

The CARS repeater, K8ZFR, is designated as WIRES X Node 91242 - Room 01242. Since the installation a short time ago, members and other hams have been using WIRES X and checking into the weekly nets locally and out of state through linked repeaters.

A huge thanks goes out to our technical team for getting the system up and running. A suggestion to our program committee would be to have a meeting presentation on the use and needed equipment to utilize the WIRES X system.

73, Toby, WT8O

Next CARS Meeting

Tuesday, February 14

7:30 PM

James Petroski,
W8NRX

Will present a program on:

LED Thermal
Properties

Busch Community
Room

See Website for Details - www.2cars.org

February Birthdays

MIKE BALACH, KB8UGT 2/2

DIANE BALACH, KD8FTV 2/7

GARY SOLOMON, N8JNO 2/15

MATT NEELY, NU8II 2/17

LINAS VAITKUS, KE8KOJ 2/17

GIL TASH, AC8VZ 2/19

DAVID NOETH, KD8ACO 2/22

January 2023 Meeting Minutes

LOCATION — The meeting was held on January 10th at the Busch Funeral Home on Ridge Road in Parma, Ohio

CALLED TO ORDER — The meeting was called to order by President Toby Kolman, WT8O, at 7:30 PM

PLEDGE OF ALLEGIANCE — Those present pledged allegiance to the flag of the United States of America.

INTRODUCTIONS — Those present introduced themselves. 19 individuals attended the meeting, all of whom were members.

NOVEMBER MINUTES — The November minutes were approved as published in the WO.

TREASURER'S REPORT — Bob Check, W8GC, reported on the Club's current financial situation. No issues or concerns were identified. An audit will occur soon. Dues are due now. PayPal is not accepting personal payments for dues so please pay via cash or check, if possible.

PRESIDENT'S REPORT — Toby Kolman, WT8O, reported the following:

- Bill, WA8GEO, has been hospitalized. Those present signed a card for Bill that was delivered by Toby after the meeting.
- Thanks to everyone for their WO contributions.



Arp, K8ARP, and John, KD8AB, share a laugh before the meeting.

VICE PRESIDENT'S REPORT — Ron Hollas, K8RJH, reported the following:

- Ohio Senate Bill 288 was signed into law on January 3, 2023 and will become effective 90 days later. This makes the use of phones and other electronic communication devices while driving a primary traffic offense. There are exclusions for amateur radio. Thanks to Bob, W2THU, for helping to obtain the exclusion. The full law can be found online – https://search-prod.lis.state.oh.us/solarapi/v1/general_assembly_134/bills/sb288/EN/05/sb288_05_EN?format=pdf. Pages 388-392 are the relevant sections. Those who use mobile radios in their vehicle should keep a printed copy of the law with them in their vehicle.

- A federal bill has been introduced to increase the data capability in Amateur HF operation. If passed, new digital voice, enhanced packet, station contacting, and file exchange modes would be possible.
- The ARRL commission rate has increased from \$2 to \$5 for renewals processed through the Club. Please pay Bob, W8GC, for your renewals.

SECRETARY'S REPORT — Secretary Matt Perlman, KE8OZU, had nothing to report.

PUBLIC SERVICE — Arp, K8ARP, had nothing to report. Chuck, K8CVM, the new ARES coordinator, reported that the Ohio Simplex Contest is this weekend on Saturday from 10:00 AM to 4:00 PM. See <https://n8esg.org/> for more information about local events.

The members enjoyed each other's company after the business meeting before the presentation.



VE UPDATE — Metro, W8MET, reported that the recent VE session on January 8, 2023, resulted in two Technicians, one General (who also earned his Technician), one Extra, and one renewal. Thanks to George, K8KR, for helping with the session. The next VE session will be at 9:15 AM on March 12th at the Old Rec Center in Independence.

PROGRAM COMMITTEE — Joe, KD8BAL, was not present due to illness. The upcoming presentations for CARS meetings include:

- Today's program is Matt Neely, NU8H, presenting "3D Printing without a 3D Printer."
- February's program will be Jim Petroski, W8NRX, from the Woodchuck Radio Club, presenting on LED thermal properties.
- March's program is TBA.
- Please contact Joe with ideas for future programs.

TECH COMMITTEE — Scott, AC8NW, reported that Wires-X will be installed soon. Ron, K8RJH, added that the Fusion K8ZFR internet room will be relocated from his house to the repeater location. An MMDBM reflector is the next repeater project.

QUARTERMASTER — Toby, WT8O, reported that all Club equipment has been moved to the storage location in North Royalton. Toby is acting as the interim Quartermaster until a volunteer takes the position permanently.

HISTORIAN — Toby, WT8O, reported that he met with Ted, K8TED, to learn how the CARS logo was created. A list of past CARS presidents is almost complete. If anyone has WO's from before 1999, please let Toby know so he can complete the list. Toby is acting as the interim Historian until a volunteer takes the position permanently.

REFRESHMENTS — Toby, WT8O, thanked Ron, K8RJH, for providing soft drinks, Matt, NU8H, for providing doughnuts and John, NU8Y, for providing coffee. Thanks to Bruce, N8DJX, for providing the Keurig.

OLD BUSINESS — Toby WT8O, led a discussion on the following:

- The Club Tool and Equipment Pool listing will be available in a password protected area of the website soon.

NEW BUSINESS — Toby, WT8O, led a discussion on the following:

- A licensing class is planned for this year, tentatively at the end of February. The General exam has a new question pool this year. David, KD8ACO, will be preparing the class materials. Toby, WT8O, Ron, K8RJH and Joel, K8SHB, will be teaching the class.
- Mark, WJ8WM, is planning a holiday party. Finding a location with a full menu for 30+ guests has been a challenge. George, K8KR, suggested Amici's restaurant. Mark will determine the final location and timing of the party.
- Please bring improvement ideas to the meetings.

NEXT MEETING — The next meeting of The Cuyahoga Amateur Radio Society will be February 14, 2023, at the Busch Funeral Home on Ridge Road in Parma, Ohio.

50/50 Drawing — Bob, W8GC, won the 50/50 drawing.

ADJOURNMENT — Toby, WT8O, adjourned the meeting at 8:16 PM.

After the meeting, Matt Neely, NU8H, presented "3D Printing without a 3D Printer".

Submitted by Matt Perlman, KE8OZU, CARS Secretary



Bob, W8GC, continues to stay on a roll as he flashes the wad he won in the 50/50.



Matt, NU8H, gave a captivating presentation explaining the details of 3-D printing.



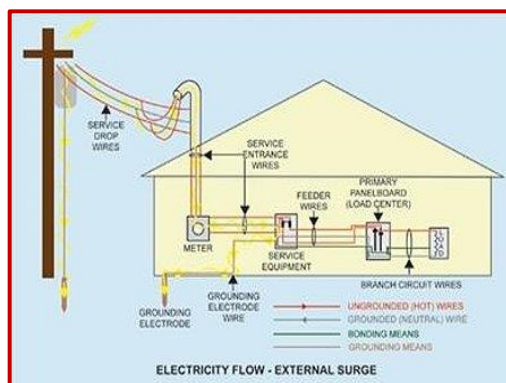
Some of the way cool items Matt made with his 3-D printer. (R)

Making Safety a Year Long Habit

Ron, K8RJH

Most of us hear about “Safety” during various times of the year, especially at the beginning of a new season and usually attached to an outdoor activity. However, being amateur radio operators, we should include an attitude of careful planning and always consider the safety aspects of our ham radio activities.

Understanding and being aware of what could go wrong can go a long way in avoiding factors that might result in accidents. According the ARRL website, *“Amateur Radio activities are not inherently hazardous, but like many things in modern life, it pays to be informed. Stated another way, while we long to be creative and innovative, there is the need to act responsibly. A good attitude toward safety also requires us to be knowledgeable about common safety guidelines and follow them faithfully.”*



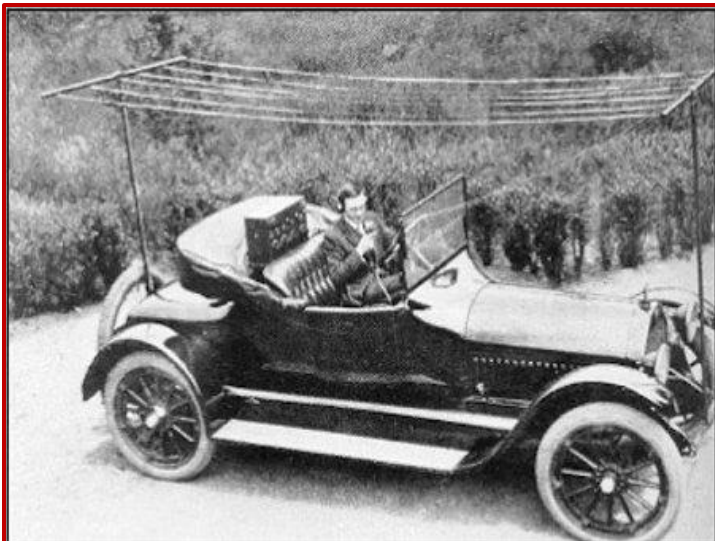
Here are five important areas that one should be knowledgeable about when operating an amateur radio station.

- **Grounding** - Station grounding is probably the most discussed subject in amateur radio, after antennas. Having a good ground protects people, equipment, and any building which may come into contact with live wires and electrical noise between radio and home systems.
- **Lightning Protection** – Lightning protection is an essential aspect of designing a safe amateur radio station. It is more than having a good ground path for static charges. This safety aspect includes the understanding of lightning protection education, awareness, and overall safety for your home.
- **Electrical Safety** - Protect yourself when putting up antennas near power lines. Always try to have a friend with you to safely erect and place antennas as an accountability partner. Use the correct materials and proper tools for the job.
- **RF Exposure** - Despite the concern over exposure, ham radio is a safe activity. Remember to follow the FCC guidelines for RF-exposure (OET Bulletin 65, Supplement B) or the Amateur Radio Service in placing antennas.
- **Driving** – Be especially aware of properly installing radios in today’s modern vehicles, referring to the manufacturer’s recommendations for placement. Be aware of the local regulations for Operating an Amateur

Radio set in a vehicle (Ohio Senate Bill 288 Sec. 4511.204) and remember to follow FCC guidelines for RF-exposure (OET Bulletin 65, Supplement C) for Mobile and Portable equipment with mounting antennas.

There are several publications and guidelines available through local sources and the ARRL that may be used to help you design a safe amateur station.

Learning about safety should always be an ongoing process all year long. We should always remember, *"There is no substitute for common sense."*



CARS

Repeaters



146.820 (-) PL Tone 110.9

Analog Repeater

Main Site – Brecksville

Receive Only Site – Brunswick

Receive Only Site – Shaker Hts.

Receive Only Site - Parma

Allstar Node 47067

EchoLink Node 343470 (K8ZFR-R)

WIRES X Node 91242 Room 01242

443.825 (+) PL Tone 131.8

Digital Yaesu Fusion

Linked to 146.820 Repeater

Brecksville

444.75 (+) PL Tone 131.8

Analog Repeater

Not Linked to Other Repeaters

Book Review: The Lightning Tamers, *by Kathy Joseph* *David, AC8TN*

I recently came across a series of YouTube videos on a site named kathylovesphysics.com. Kathy, or Dr. Joseph, is an Engineer and Physicist living in the San Francisco Bay area. Watching her content on the web (more than 30 videos to date), I began to really appreciate and enjoy her skill at story telling.

One of her latest books, *The Lightening Tamers*, released last year, reminds me of a PBS Ken Burns documentary, with all the passion, information, and anecdotal inputs to keep the story interesting. I want to share with you some of my impressions from this book.

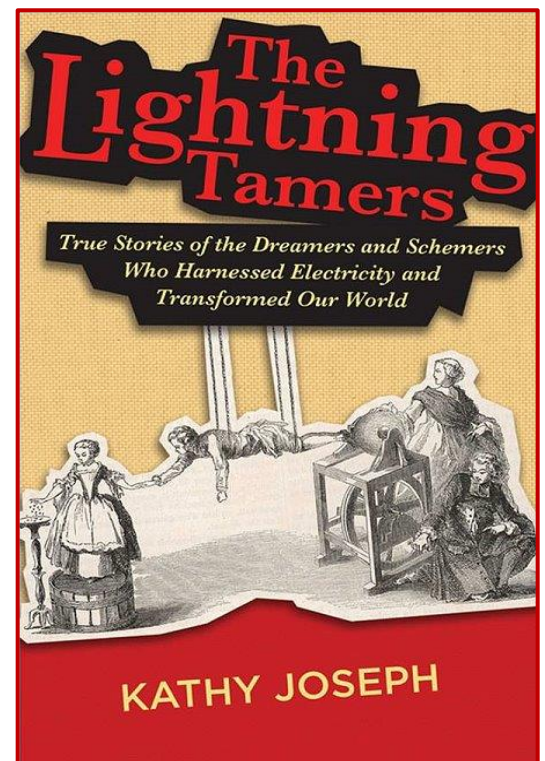
I have a great interest in Thomas Edison and all that he accomplished during his 84 years of life. *The Lightning Tamers* includes Edison's inventions as well as the contribution of dozens of other seekers in the study and understanding of electricity and its uses. The book walks you through the history of electrical discovery and invention chronologically, beginning with the "Father of Electricity", William Gilbert (1544-1603) through 2003 with the founding of the Tesla Motor Company. There is a lot of great information within its 240 pages that will certainly demonstrate the combination of experiments and accidents that have formed the technological world we live in today.

Ever wonder what really happened when Benjamin Franklin conducted his famous kite and key experiment in the middle of an electrical storm. or how Alessandro Volta created the first battery in 1800? Reading about Laura Bassi, I learned that she was the second woman ever to earn a university degree in the year 1732. You'll have to read the book to discover the name of the person who in 1678 became the first woman in the world to receive a Ph.D. degree.

If you are curious about the scientists whose names hams often use such as, "amperes", "volts", "watt", "coulomb", "farad", "hertz", "morse" and "ohm". Then you may enjoy reading this book.

The author muses in the epilog that she has just completed a book on the history and physics of electricity with almost no mathematical references. I think this realization is the reason this text is so enjoyable and easy to explore. The wit and knowledge contained within this book is simply fun to experience and absorb. Gaining a historical view of how we got to today's Tesla cars and Apple phones reminds me of how we all learn from each other and build our future, learning from all those people who came before us.

Check out the author's web site, kathylovesphysics.com, and this book. There are so many fascinating bits of knowledge to be learned.



CARS CW Class Progress Report

Ron, K8RJH

The 2022-2023 CARS CW training has just passed the halfway mark of completing the scheduled 16 bi-weekly classes on January 19, 2023. There is a very steady attendance of eight dedicated students who have an aspiration to learn or enhance their Morse code skills since the class started last October. It is fascinating to watch every individual grow with this skill.

By May 2023, the attendees should be competent with CW for on the air contacts and supporting the ARRL Field Day event as CW operators this year. The learning style used in this class is the Koch and Farnsworth method, structured around learning characters at 20 WPM. Characters are presented as sounds, at real world speeds, so that words can be more easily constructed. From there, sentences begin to emerge.

To keep the interest of the class focused on learning the code, an expanding meeting structure is used starting with taking attendance (in Morse Code), a pre-course assignment knowledge check with new code characters added to the learned letters and numbers, including a short training video that provides insight, encouragement, with tips, in learning the code. So far, the training videos have been interesting reference material on Morse code history, use and applications from the 1800's to the present.

For example, the next class on February 9th will explore a training video on the WWII Paraset CW Spy radio set, including a demonstration of a radio contact just as field radio operators did in the early 1940's. The students can follow the CW messaging of a Paraset radio contact for learning the structure of a CW QSO. Then later in the month, the CW Class will be introduced with the procedure to apply for an ARRL Code Proficiency certificate.

Starting in March through May of this year the Class will be introduced to the basics of a CW contact, Q-Signals, Pro-Signs, and contesting.



David, AC8TN, works the floor passing his knowledge to the CW Students.



The students on the keys.

The fun part of the class is always the “Hand’s-On” of sending and listening to the learned copy using “Bugs”, “Touch Paddle”, and iambic keyers!

The complete program makes for a very quick hour every time the class meets. For additional information, contact one of our CARS CW coaches, David AC8TN, or myself.

January VE Session

Once again, Metro, W8MET, competently led his outstanding VE team consisting of Gary, NI8Z; George, K8KR; Fred, K8IG, and Linda, N8LRS to another successful VE Session on Sunday January 8th, 2023, at the Old Elmwood Recreation Center in Independence.

Three hams passed their Technician exams becoming licensed amateurs. Congratulations to Greg Barrett, KE8WIO; Larry Hobson, KE8WID; and Michael Shumaker, KE8WIQ; and welcome to the Amateur Radio Service. Michael Shumaker passed the General exam as well. Jeffery Bacha, KE8NNW, upgraded to Amateur Extra. Stephen Horvath, N8QDG, renewed his license.

The next VE testing session will be held Sunday, March 12th, at **9:15 AM*** at the Old Elmwood Recreation Center, 6200 Pete Wisniesky Parkway, Independence 44131. Directions and a map are on the CARS website homepage. For information or an appointment please contact Metro, W8MET, at 216-520-1320 or metro351@sbcglobal.net

As always, walk-ins are welcome.

***Please note the time change to 9:15 AM.**

February Net Shed

FEB	1	AC8TN
FEB	8	WT8O
FEB	15	N8RJH
FEB	22	KD8ACO

**Nets are run every Wednesday at
9:00 PM on:
146.820 (PL 110.9)**

**443.825(+) PL Tone 131.8
Digital Yaesu Fusion
Linked to the 146.82 Repeater**

EchoLink Node 343470 (K8ZFR-R)

Allstar Node 47067

WIRES X Node 91242 Room 01242

Honorary Members

Any person who by nature of
outstanding or meritorious contribution
to the furtherance of amateur radio and
the ideals of the Cuyahoga Amateur
Radio Society

Robert Check, W8GC
Elected 2/10/15

Thomas Wayne, WB8N
Elected 1/10/17

Dwaine Modock, K8ME, SK
Elected 5/9/17

Toby Kolman, WT8O
Elected 10/10/17

Jerry Smith, NW9H
Elected 5/8/18

Ron Borkey, K8VJG, SK
Elected 5/14/19

Ed Stevens, WB8ROK, SK
Elected 8/10/21

CARS History

Past Presidents

Toby, WT8D

The Board of Directors decided to select a club historian to construct a history of CARS using archives and the knowledge of several charter members who are in the club. It was also decided the first task of the historian would be to establish a record of all the past presidents.

Serving as the interim historian, I worked with Terry, KB8DTC, the CARS archivist, sorting through ancient records and old *Wobbly Oscillators* to begin the list. I also contacted all the charter members I knew of, as well as some old timers to challenge their memories. At the risk of sounding immodest, I believe we came up with a complete listing of the presidents.

Jerry Smith, K8AJG	1971 – 1973	Trev Hilfer, WD8QDP	1985
	&		
	1981 - 1982	Rich James, N8FIL	1986 – 1990
John Leeder, K8TIA	1974 – 1975		&
			1994 – 1997
Arlan Heiser, W8TAV	1976	Shirley Lovell, WT8A	1991 – 1993
Lyle Depuy, WA8NIL	1977	Tom Wayne, WB8N	1998 – 2000
Errol Rafferty, WA8TTO	1978	Bob Check, W8GC	2001 - 2007
Kirk Reiser, WD8BFB	1979	Lawson "Scotty" Shields,	2008
Dennis Clinic, WA8SHC	1980	WA8SLN	
Jim Iams, K8BLB	1983 – 1984	Toby Kolman, WT8O	2009 - 2023

For Sale

Collins 32 V-3 Transmitter

Excellent Working Condition

Best offer

Contact Toby, WT8O 440-525-6109



Dues Notice

Bob, W8GC

Your 2023 CARS dues are payable on or before January 31, 2023. If you have already paid -THANK YOU.

Dues can be paid in 3 ways:

Online by sending the funds via PayPal to w8gc@2cars.org PLEASE USE PERSONAL OPTION.

You can also mail a check to:

CARS
7395 Brecksville Rd.
Independence, OH 44131

Pay in person at any CARS meeting.

Dues are \$26.00 per year for regular membership. Each additional family member is \$16.00. If you are 60 yrs. or older, your dues are only \$18.00 per year.

CARS will offer assistance to anyone having a hardship. Please let me know if you have a hardship or know a member who needs help.

Any members dues not paid by January 31, 2023 will no longer be in good standing and not eligible to vote at a CARS meeting.

73, Bob, W8GC, Treasurer CARS

*You can bend but never break me 'cause it only serves
to make me more determined to achieve my final goal.*

-Helen Reddy and Ray Burton

The *Wobbly Oscillator* is a publication of the Cuyahoga Amateur Radio Society, P.O. Box 31264, Independence, Ohio, 44131-0264. Articles from this publication may be reprinted in any ham radio publication, if credit is given to this publication and the author, if known. All submissions should be emailed to: wt8o@att.net



Sign up now for CARS 2023 Winter Ham Radio classes, get your Technician, General or Extra class license!

**Thursday evenings starting February 23, 2023
and ending April 6, 2023 at 6:30 pm**

***April 6th will be a special VE Test session for all license classes,
ARRL fee for this VE test is \$15.00***

***You must also obtain an FRN number from the FCC to take your Technician License Test
before testing: <https://www.fcc.gov/licensing-databases/commission-registration-system-fcc>,
also there is a charge for all new licenses or upgrades go to:
www.arrl.org/fcc-application-fee. to register and pay.***

**To register please follow the link at www.2cars.org and complete
the on-line application or call 440-525-6109 Toby, WT8O**

***Classes will be held at the Seven Hills City Hall, 7325 Summit View Dr
Seven Hills, OH 44131 in room "C" at 6:30 pm every Thursday.
The entrance is at the East end on the South side of building***

**Class fees: Technician \$25.00, all who pass get a free CARS membership for
2023, General and Extra \$20.00 non members, Extra is \$15.00 for
CARS members, General class is FREE to CARS members**

All class materials are provided

CARS 2023 Officers & Committees

Audit

K8RJH ** WT8O, KD8FTS

Audio/Video

AC8NW **

ARRL Liaison

K8RJH **

Awards

W8GC ** WT8O

Christmas party & Summer Picnic

WJ8WM **, K8ARP, KD8FTU, KD8FTV

Field Day

K8RGI **, WT8O **, K8ARP, KD8SCV, AC8NW, AC8TN, WT8O, K8RJH

50/50

KD8SCV

Hamvention Bus

KD8FTS **

Club Historian

WT8O **

License classes

KD8ACO **, WT8O, K8SHB

Media Representative

KD8SCV

Membership

WT8O ** W8GC

NET

WT8O **

Newsletter

WT8O ** 440-525-6109
wt8o@att.net

Programs at Meetings

KD8BAL ** KD8FTS, KE8OZU

Property Custodian's

KB8DTC paper records, W8GC donations to sell
WT8O Quartermaster

Public Services

KD8FTS **, K8ARP

QSL Manager - W8HBI, W8BM

WB8N **

Refreshments at Meetings & Picnic

K8RJH ** pop, NU8H ** Donuts,
NU8Y *** Coffee

Scholarship

W8GC ** K8RGI, KE8OZU, WT8O, K8RJH

Sunshine (welfare)

Andy, KD8SCV ** 440-886-0723

Technical

AC8NW ** N8OVW, WJ8WM, KD8ACO, K8RJH, KB8DTC

VE Exams

Metro, W8MET ** 216-520-1320

Web Master/e-mail

W8GC ** KE8OZU

**** chairman or co-chairman**

2023 Officers

PRESIDENT

Toby Kolman WT8O 440-525-6109
wt8o@att.net

VICE-PRESIDENT

Ron Hollas, K8RJH, 216-379-7440

SECRETARY

Matt Perlman, KE8OZU, 216-337-1540
Alternate Secretary:

TREASURER:

Bob Check W8GC 216-524-1750
Alternate Treasurer: Bob Robbins, K8RGI

Board Members & License Trustees

Board Chairman:

Mark Moro WJ8WM 216-661-0342

even year executive board 2 year term

AC8NW, KB8DTC, WJ8WM

odd year executive board 2 year term

K8RGI, K8ARP, KD8FTS

License trustee

K8ZFR

WT8O

License trustee

W8HBI, W8BM,
W8GC



January 9, 2023